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1 [Multimedia streaming and services: PROMISE: peer-to-peer media streaming using CollectCast](#)

Mohamed Hefeeda, Ahsan Habib, Boyan Botev, Dongyan Xu, Bharat Bhargava
 November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: [pdf\(280.35 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the design, implementation, and evaluation of PROMISE, a novel peer-to-peer media streaming system encompassing the key functions of peer lookup, peer-based aggregated streaming, and dynamic adaptations to network and peer conditions. Particularly, PROMISE is based on a new application level P2P service called *CollectCast*. CollectCast performs three main functions: (1) inferring and leveraging the underlying network topology and performance information for the selection of send ...

Keywords: multimedia streaming, peer-to-peer systems

2 [The Jupiter audio/video architecture: secure multimedia in network places](#)

Pavel Curtis, Michael Dixon, Ron Frederick, David A. Nichols
 January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available: [htm\(72.37 KB\)](#)
 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: audio, collaboration, encryption, multicast, network places, security, video

3 [Privacy and trust: Usability and privacy: a study of Kazaa P2P file-sharing](#)

Nathaniel S. Good, Aaron Krekelberg
 April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: [pdf\(444.04 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

P2P file sharing systems such as Gnutella, Freenet, and KaZaA, while primarily intended for sharing multimedia files, frequently allow other types of information to be shared. This raises serious concerns about the extent to which users may unknowingly be sharing private or personal information. In this paper, we report on a cognitive walkthrough and a

laboratory user study of the KaZaA file sharing user interface. The majority of the users in our study were unable to tell what files they were sh ...

Keywords: Peer-to-peer networks

4 Technical poster session 2: multimedia networking and system support: Collaboration-aware peer-to-peer media streaming 

Song Ye, Fillia Makedon

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available:  pdf(168.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Peer-to-Peer(P2P) media streaming has emerged as a promising solution to media streaming in large distributed systems such as the Internet. Several P2P media streaming solutions have been proposed by researchers, however they all implicitly assume peers are collaborative, thus they suffer from the selfish peers that are not willing to collaborate. In this paper we introduce an incentive mechanism to urge selfish peers to behave collaboratively. It combines the traditional reputation-based app ...

Keywords: collaboration, media streaming, peer-to-peer, reputation

5 Steerable media: interactive television via video synthesis 

Chris Marrin, Rob Myers, Jim Kent, Peter Broadwell

February 2001 **Proceedings of the sixth international conference on 3D Web technology**

Full text available:  pdf(306.23 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: WWW applications, animation systems, applications, graphics systems, multimedia, rendering systems, video

6 LiteMinutes: an Internet-based system for multimedia meeting minutes 

Patrick Chiu, John Boreczky, Andreas Girgensohn, Don Kimber

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  pdf(1.68 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: hypermedia systems, meeting capture, meeting support systems, multimedia applications, note taking, video applications

7 BubbleUp: low latency fast-scan for media servers 

Edward Chang, Hector Garcia-Molina

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  pdf(1.93 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: disk scheduling, initial latency, memory utilization, multimedia

8 Device reservation in audio/video editing systems

David P. Anderson

May 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 2

Full text available:  pdf(297.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

What fraction of disks and other shared devices must be reserved to play an audio/video document without dropouts? In general, this question cannot be answered precisely. For documents with complex and irregular structure, such as those arising in audio/video editing, it is difficult even to give a good estimate. We describe three approaches to this problem. The first, based on long-term average properties of segments, is fast but imprecise: it underreserves in some cases and overreserves i ...

Keywords: admission control, edit decision list, quality of service, reservation

9 Digital libraries in the classroom: The interactive shared educational environment: user interface, system architecture and field study

Xiangming Mu, Gary Marchionini, Amy Pattee

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(298.58 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The user interface and system architecture of a novel Interactive Shared Educational Environment (ISEE) are presented. Based on a lightweight infrastructure, ISEE enables relatively low bandwidth network users to share videos as well as text messages. Smartlink is a new concept introduced in this paper. Individual information presentation components, like the video player and text chat room, are "smartly" linked together through video timestamps and hyperlinks. A field study related to children ...

10 An annotated bibliography of computer supported cooperative work

Saul Greenberg

July 1991 **ACM SIGCHI Bulletin**, Volume 23 Issue 3

Full text available:  pdf(4.27 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer-supported cooperative work (CSCW) is a new multi-disciplinary field with roots in many disciplines. Due to the area's youth and diversity, few specialized books or journals are available, and articles are scattered amongst diverse journals, proceedings and technical reports. Building a CSCW reference library is particularly demanding, for it is difficult for the new researcher to discover relevant documents. To aid this task, this article compiles, lists and annotates some of the current ...

11 Efficient retrieval of composite multimedia objects in the JINSIL distributed system

Junehwa Song, Asit Dan, Dinkar Sitaram

June 1997 **ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 25 Issue 1

Full text available:  pdf(1.54 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a distributed environment, presentation of structured, composite multimedia information poses new challenges in dealing with variable bandwidth (BW) requirement and synchronization of media data objects. The detailed knowledge of BW requirement obtained by analyzing the document structure can be used to create a prefetch schedule that results in efficient utilization of system resources. A distributed environment consists of various system components that are either dedicated to a client or s ...

12 Multimedia and visualization (MV): Providing resource allocation and performance

isolation in a shared streaming-media hosting service

Ludmila Cherkasova, Wenting Tang

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  pdf(474.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The trend toward media content hosting is seeing a significant growth as more rich media is used in the enterprise environment and as it becomes mission critical for businesses. A shared media hosting service supports the illusion that each hosted service has its own media server, when, in reality, multiple "logical hosts" may share one physical host. For such a shared media hosting service, the ability to guarantee a specified share of server resources to a particular hosted service is very imp ...

Keywords: QoS guarantees, SLAs, admission control, benchmarking, measurement, media server capacity, performance isolation, shared media hosting, simulation

13 Playing experience: From remote media immersion to Distributed Immersive Performance

A. A. Sawchuk, E. Chew, R. Zimmermann, C. Papadopoulos, C. Kyriakakis

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence**

Full text available:  pdf(378.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the architecture, technology and experimental applications of a real-time, multi-site, interactive and collaborative environment called Distributed Immersive Performance (DIP). The objective of DIP is to develop the technology for live, interactive musical performances in which the participants - subsets of musicians, the conductor and the audience - are in different physical locations and are interconnected by very high fidelity multichannel audio and video links. DIP is a specific r ...

Keywords: information interfaces and presentation, music performance, real-time interaction, remote collaboration

14 Late breaking result papers: Viewing and annotating media with MemoryNet

Rakhi Rajani, Alex Vorbau

April 2004 **CHI '04 extended abstracts on Human factors in computing systems**

Full text available:  pdf(316.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we describe an investigation into how we might share and annotate media objects (namely photographs) among people in our personal networks. We describe a prototype, the MemoryNet Viewer (MNV) and present results of a user study. We conclude with future developments.

Keywords: annotation, awareness, home, sharing, social computing, user experience design, user studies, video content/communications

15 Designing file systems for digital video and audio

P. Venkat Rangan, Harrick M. Vin

September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles**, Volume 25 Issue 5

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address the unique requirements of a multimedia file system such as continuous

storage and retrieval of media, maintenance of synchronization between multiple media streams, and efficient manipulation of huge media objects. We present a model that relates disk and device characteristics to the recording rate, and derive storage *granularity* and *scattering* parameters that guarantee continuous access. In order for the file system to support multiple concurrent requests, we develop ...

16 A failure and overload tolerance mechanism for continuous media servers 

Rajesh Krishnan, Dinesh Venkatesh, Thomas D. C. Little

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  [pdf\(2.23 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: caching, clustered video servers, content insertion, fault tolerance, interactive video-on-demand, overload tolerance, rate adaptive stream merging, stream clustering

17 A confederation of tools for capturing and accessing collaborative activity 

Scott Minneman, Steve Harrison, Bill Janssen, Gordon Kurtenbach, Thomas Moran, Ian Smith, Bill van Melle

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available:  [htm\(73.96 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CSCW, activity capture, content-and content-based indexing and retrieval, digital audio and video, distributed multimedia systems, real-time indexing, usability, user interfaces

18 Dealing with synchronization and timing variability in the playback of interactive session recordings 

Nelson R. Manohar, Atul Prakash

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available:  [htm\(85.28 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: collaboration environments, media integration and synchronization, session capture and replay

19 Sharing views and interactions with single-user applications 

S. Greenberg

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Volume 11 Issue 2-3

Full text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although work is frequently collaborative, most computer-based activities revolve around software packages designed to be used by one person at a time. To get around this, people working together often talk and gesture around a computer screen, perhaps taking turns interacting with the running "single-user" application by passing the keyboard around. However, it is technically possible to share these unaltered applications—even though they were originally designed for a si ...



20 Human-computer interaction: Schema modelling for automatic generation of multimedia presentations

Augusto Celentano, Ombretta Gaggi

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available:  pdf(169.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia documents are an effective way to present different kinds of information, since the integration of different media types gives more expressive power and opportunities to catch the user attention. A multimedia report is a multimedia presentation built on a set of data returned by one or more queries to multimedia repositories, integrated according to a schema with appropriate spatial layout and temporal synchronization, and coherently delivered to a user for browsing. We discuss the pr ...

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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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L19	0	resiz\$5 near5 (image or picture or photo) near5 plug\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 09:32
L20	0	resiz\$5 near5 (image or picture or photo) near5 plug adj in	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 09:33
L21	0	resiz\$5 near5 plug adj in	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 09:32

L22	0	resiz\$5 near8 plug adj in	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 09:32
L23	12	resiz\$5 near5 (image or picture or photo) near5 send\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 09:36
L24	57	(resiz\$5 or crop\$5) near5 (image or picture or photo) near5 server	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 10:08
L25	1	("5,892,909").PN.	USPAT	OR	OFF	2005/05/31 10:10
L26	588	digital adj certificate	USPAT	OR	OFF	2005/05/31 10:10
L27	1	digital adj certificate and (offline near5 view)	USPAT	OR	OFF	2005/05/31 10:10
L28	1	digital adj certificate and (offline near5 view\$3)	USPAT	OR	ON	2005/05/31 10:16
L29	24	distribution adj list near5 single near5 list\$5	USPAT	OR	ON	2005/05/31 10:17
L30	0	distribution adj list near5 single adj list\$5	USPAT	OR	ON	2005/05/31 10:17
L31	0	distribution adj list near5 single adj2 list\$5	USPAT	OR	ON	2005/05/31 10:17
L32	0	distribution adj list near5 single adj2 list\$5	US-PGPUB; USPAT	OR	ON	2005/05/31 10:17
L33	22	distribution near5 single adj file	US-PGPUB; USPAT	OR	ON	2005/05/31 10:17
L34	0	distribution near5 single adj file near5 list	US-PGPUB; USPAT	OR	ON	2005/05/31 10:18
L35	0	distribution near5 single adj file near5 list\$5	US-PGPUB; USPAT	OR	ON	2005/05/31 10:18
L36	22	distribution near5 single adj file	US-PGPUB; USPAT	OR	ON	2005/05/31 10:37
L37	1	("6333932").PN.	USPAT	OR	OFF	2005/05/31 10:37
S1	16	bartholomew-alan\$.in.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 01:03
S3	0	trio adj systems\$.as.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 01:04
S4	0	S2 and trio adj systems	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 01:04
S5	0	S2 and media same play\$5	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 01:05
S6	870	trio\$.as.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 01:05

S7	0	S6 and media same play\$5	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 01:05
S8	13	S6 and media	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/05/31 02:57
S9	34	creat\$5 near5 post\$5 near5 media	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:28
S10	67	web adj server and application adj server and streaming adj server	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:45
S11	14	S10 and developer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:29
S12	0	S11 not S10	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:31
S13	53	S10 not S11	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:33
S14	13	S13 and plug\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:37
S15	1	"20020032783"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:43
S16	1	("6333932").PN.	USPAT	OR	OFF	2005/05/31 03:43
S17	1	("6260021").PN.	USPAT	OR	OFF	2005/05/31 03:43
S18	5	dynamic\$5 near5 listing same edit\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:47
S19	0	dynamic\$5 near5 listing same file near5 management	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:47
S20	14	dynamic\$5 near5 listing and file near5 management	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:53
S21	913	web near5 page near5 listing	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:53
S22	56	web near5 page near5 listing near5 dynamic\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 03:55
S23	22	web near5 page near5 listing near5 dynamic\$5 and edit\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 08:15
S24	9	"6374260"	USPAT	OR	OFF	2005/05/31 05:24

S25	1	("6374260").PN.	USPAT	OR	OFF	2005/05/31 05:24
S26	1	mediagram	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/31 05:39